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Subject: Creatinine Cut off for Substituted

Based on my experience with our clients, I have seen creatinine less than 20 mg/dl to be directly proportional with the specific gravity lower than 1.005 for intentional dilution/hydration of urine specimen. Certain physiological causes/conditions lower than specific gravity of 1.005 and normal (Reference: 20 - 400 mg/dl) creatinine level for random urine did not usually indicate dilution. In my opinion, creatinine level lower than 2 mg/dl to be suggestive of dilution (with specific gravity lower than 1.005) is too low, especially when using reagent strip validity test. The reference range I'm using for random urine specific gravity is 1.005 - 1.030.

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